

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : A400  
 Product code : A400

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Lubricants and lubricant additives  
 Reserved for professional users  
 Restrictions on use : No data available.

#### 1.3. Supplier

Pfeiffer Vacuum SAS  
 98, avenue de Brogny - BP 2069  
 74009 Annecy Cedex - FRANCE  
 T +(33) 04 50 65 77 77  
[support-service@adixen.fr](mailto:support-service@adixen.fr)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
USA	American Association of Poison Control Centers	515 King Street, Suite 510 VA 22314 Alexandria	1-800-222-1222	

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No data available.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
White mineral oil (petroleum)	(CAS-No.) 8042-47-5	70 - 90	Not classified
1-Decene, homopolymer, hydrogenated	(CAS-No.) 68037-01-4	20 - 30	Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.  
 First-aid measures after inhalation : If any vapours are inhaled, remove the victim to the fresh air and keep at rest. If experiencing respiratory symptoms, call a doctor.  
 First-aid measures after skin contact : Wash skin with plenty of water. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.  
 First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

**4.2. Most important symptoms and effects (acute and delayed)**

No additional information available

**4.3. Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

**5.1. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Sprayed water  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical powder.

Unsuitable extinguishing media : No data available.

**5.2. Specific hazards arising from the chemical**

Reactivity : Reactivity relating to the substances, containers and contaminants to which the substance or mixture may be exposed during their transport, storage and use : No data available.

**5.3. Special protective equipment and precautions for fire-fighters**

Precautionary measures fire : Do not enter or remain in the hazard area without chemical protection suits and autonomous breathing apparatus. Wear a full fire-resistant suit. Do not let the extinguishing water enter the sewage system or water flows. Cool containers exposed to the fire in water. If the leak or spillage has not caught fire, use water spray to disperse vapours and protect the personnel trying to stop the leak. Water spray can be used to distance run-offs of the product away from the areas exposed.

Other information : Residues of contaminated fire extinguishing water should be disposed of according to local regulations. Fire-fighting and rescue operations, and clearing operations under the effect of the combustion and hot gas can be performed with breathing apparatus. Wear protective clothing.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

General measures : Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**6.1.1. For non-emergency personnel**

Protective equipment : Ensure adequate ventilation. In compliance with good manufacturing practices, do not eat, drink or smoke when handling chemicals. Avoid inhalation, ingestion and contact with skin and eyes. Wear full protective clothing and self-contained breathing apparatus.

**6.1.2. For emergency responders**

Protective equipment : Avoid contact with skin and eyes. Emergency staff should be equipped with appropriate personal protection equipment (refer to section 8).

Emergency procedures : Move away or remove any source of ignition or sparks.

**6.2. Environmental precautions**

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Avoid dispersion (for example by retention basin or oil barriers).

Retain contaminated wash water and dispose of it.

Warn the local authorities if significant leaks cannot be contained.

**6.3. Methods and material for containment and cleaning up**

Other information : Remove with an inert absorbent.  
For large spillages, install dams or other containment methods to limit the propagation of the product. If the dammed product can be pumped, store the gathered product in an appropriate container.  
Clean the residual substances with the help of an appropriate absorbent.  
Local or national regulation may apply to the spillage and disposal of this product, as well as to the materials and objects used for the cleaning. You will have to determine which regulations apply.  
The sections 13 and 15 of this safety data sheet provide information about certain local or national requirements.

### 6.4. Reference to other sections

For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.  
 Hygiene measures : Ensure that eye-rinsing systems and safety showers are located near the work space. Do not eat, drink or smoke when using. Wash contaminated clothing before putting back on.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.  
 Storage conditions : Store in properly labelled containers. Store under observance of specific national legislation.  
 Incompatible materials : Heat sources. Direct sunlight. Oxidizing agents, reducing agents, acids, bases.  
 Packaging materials : Keep in original containers closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

White mineral oil (petroleum) (8042-47-5)		
ACGIH	Local name	Oil mist (Mineral)
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
ACGIH	Regulatory reference	ACGIH
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA
1-Decene, homopolymer, hydrogenated (68037-01-4)		
Not applicable		

Additional information : No data available.

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure sufficient ventilation, especially in enclosed spaces.  
 Reduce the exposure concentrations at the workplace as far as possible.  
 Environmental exposure controls : Avoid release into natural bodies of water, waste water or the soil.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Due to the many possible conditions of exposure, the user should consider the actual period of use of a chemical protection glove to be significantly shorter than the period prior to permeation. It is essential to comply with the manufacturer's instructions for use, in particular concerning minimum thickness and minimum period prior to permeation. This information in no way replaces the compliance tests conducted by the final user. The protection provided by the glove depends on the conditions in which the substance/mixture is used. At the very least use chemical-resistant, leak-proof gloves (in accordance with standard EN 374). The use of this product means that the type of material and thickness of the gloves as well as the time taken to break down the material used to make the gloves cannot be decided until an in-depth study of the workstation has taken place, leading to a clear definition of the conditions of use and the most accurate possible evaluation. The gloves should therefore be chosen with the advice of the personal protective equipment manufacturer.

#### Eye protection:

Goggles with lateral protection (according to standard EN 166).

#### Skin and body protection:

Skin protection appropriate to the conditions of use should be provided. Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Mask with gas-vapours / dust filter type A/P2 (according to standard EN 141/EN143).

#### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: Odourless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: 220 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.86
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: Not classed as a combustion agent.

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity relating to the substances, containers and contaminants to which the substance or mixture may be exposed during their transport, storage and use : No data available.

#### 10.2. Chemical stability

The product is stable in normal conditions of use. Stability of the substance or mixture under normal and predictable storage and handling room conditions in terms of temperature and pressure : Chemically stable under standard room conditions (room temperature).

#### 10.3. Possibility of hazardous reactions

Reaction or polymerisation of the substance or mixture releasing excessive heat or pressure or generating other dangerous conditions : This product will not polymerise by releasing excessive heat or pressure or by generating other dangerous conditions. (See section 10.1 for reactivity which can generate risks by taking into account the substances, containers and contaminants to which the substance or mixture may be exposed during their transport, storage and use.).

#### 10.4. Conditions to avoid

Listing of conditions such as temperature, pressure, light, shocks, electrostatic discharges, vibrations or other physical stresses which may lead to a dangerous situation : According to our knowledge, temperature, pressure, light, shocks, etc. do not lead to a dangerous situation. Keep away from open flames, hot surfaces and ignition sources.

#### 10.5. Incompatible materials

Families of substances or mixtures, or specific substances, such as water, air, acids, bases, oxidising agents, with which the substance or mixture may react by generating a dangerous situation : Strong oxidising agents, strong acids and strong bases.

#### 10.6. Hazardous decomposition products

Known dangerous decomposition products and products which may be reasonably predictable as such following use, storage, pouring and heating : This product does not decompose under normal conditions. Decomposition products in case of fire : consult section 5.2. No hazardous decomposition products are known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – single exposure	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available

**SECTION 12: Ecological information**

**12.1. Toxicity**

<b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>	
ErC50 (algae)	EC50: 190 mg / l - Exposure time: 48 h - Species: Daphnia magna
NOEC (acute)	NOELR : 1.000 mg / l - Exposure time: 72 h - Species: Scenedesmus capricornutum (fresh water algae) - static test Method: OECD Test Guideline 201

**12.2. Persistence and degradability**

<b>White mineral oil (petroleum) (8042-47-5)</b>	
Persistence and degradability	Result Difficultly biodegradable. Biodegradation 31 % Exposure period 28 days.
<b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>	
Persistence and degradability	Result Difficultly biodegradable. Biodegradation 2 % Exposure period 28 days Method OCDE guideline 301D.

**12.3. Bioaccumulative potential**

<b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>	
Log Pow	> 6.5

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- Regional legislation (waste) : Dispose of the product in accordance with the applicable local regulations. According to the European Waste Code (EWC), the waste code is not relative to the product itself but to its application.  
The waste code should be assigned by the user, if possible after consulting the relevant authorities for waste disposal.
- Waste treatment methods : Dispose of in accordance with the local/national safety regulations in force.
- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
- Additional information : It is recommended to avoid or reduce waste production as much as possible.

The disposal of this product, solutions and by-products shall comply with the legal requirements for environmental protection and waste disposal and the requirements of all local authorities at all times.

A licensed waste disposal contractor will be in charge of the disposal of surplus and non-recyclable products. Do not evacuate untreated waste into the sewers.

Only dispose of this product and its container by taking all standard precautions. Handle non-cleaned and non-rinsed containers with care. Empty containers or liners may retain product residues. Avoid dispersing spilled materials, as well as their leakage, and any contact with the soil, waterways, drains and sewers.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

A400	
SARA Section 311/312 Hazard Classes	Not applicable
<b>White mineral oil (petroleum) (8042-47-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
<b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	

#### 15.2. International regulations

##### CANADA

<b>White mineral oil (petroleum) (8042-47-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>1-Decene, homopolymer, hydrogenated (68037-01-4)</b>
Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

# A400

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### White mineral oil (petroleum) (8042-47-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### 1-Decene, homopolymer, hydrogenated (68037-01-4)

Listed on the EU NLP (No Longer Polymers) inventory

#### National regulations

##### A400

Occupational illnesses (R-461-3, France) - 36

#### 15.3. US State regulations

##### A400

U.S. - California - Proposition 65 - Other information

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

H304

May be fatal if swallowed and enters airways

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*